

**List of Publications**  
**Laura Henderson Lewis**  
(In Chronological Order 4/7/03)

**In-Press and Submitted Publications**

1. L. H. Lewis, M. H. Yu and R. J. Gambino, "Simple Enhancement of the Magnetocaloric Effect in Giant Magnetocaloric Materials", submitted to *Appl. Phys. Lett.*
2. M. H. Yu, P. Sujatha Devi, L. H. Lewis, Perena Gouma, J. B. Parise, and R. J. Gambino, "Towards a Magnetic Core-Shell Nanostructure: A Novel  $Y_3Fe_3Al_2O_{12}$ -CrO<sub>2</sub> Composite made by a Citrate-Nitrate Auto-Ignition Process" submitted to *Materials. Sci. and Eng. B*,
3. Ming-hui Yu, L. H. Lewis and A. R. Moodenbaugh, "Large Magnetic Entropy Change in the Metallic Antiperovskite Mn<sub>3</sub>GaC", *J. Appl. Phys. Rapid Communications*, in press.
4. Katayun Barmak, Jihwan Kim, Roger A. Ristau and Laura H. Lewis, "Ferromagnetic Exchange-Spring Nanocomposites of A1+L1<sub>0</sub> CoPt", *IEEE Trans. Magn.* in press.
5. D. C. Crew, J.Kim, K. Barmak and L. H. Lewis, "Robust exchange coupling in bilayer exchange spring thin films", *J. Appl. Phys.* in press.
6. L. H. Lewis, J.Kim, K. Barmak and R. Ristau, "The CoPt System: A Natural Exchange Spring"; *Physica B* in press.
7. R. W. McCallum, M. J. Kramer, K. W. Dennis, L. H. Lewis, K. D.Tung and N. P. Duong, "The Link Between Glass Formability and Magnetic Properties in Nd-Fe-Al", *Physica B* in press.
8. Ko-Wei Lin, Richard J. Gambino and L. H. Lewis, "Structural and Magnetic Characterization of Ion-Beam Deposited NiFe/Ni<sub>x</sub>Fe<sub>1-x</sub>O Composite Films", *J. Appl. Phys.*, in press.

**Referred Journal Publications**

9. J. Kim, K. Barmak and L. H. Lewis, "L1<sub>0</sub>-CoPt/Co Bilayer Ferromagnetic Films: Interdiffusion, Structure and Microstructure", *Acta Materialia* **51** (2003) 313-323.
10. M. H. Yu, P. Sujatha Devi, L. H. Lewis, Sanjay Sampath, J. B. Parise and R. J. Gambino, "Novel Synthesis and Assessment of Functional Oxide Perovskites", *Materials. Sci. and Eng. B* **97** (2003) 245-250.
11. L. H. Lewis, B. Nielsen, T. Friessnegg, V. J. Ghosh, M. J. Kramer, R. W. McCallum and K. Dennis, "Nanostructural Aspects and Phase Constitution of Overquenched and Amorphous Nd<sub>2</sub>Fe<sub>14</sub>B", *J. Non-Crystalline Solids* **315** 256-270 (2003)
12. K. Barmak, J. Kim, R. Ristau and L. H. Lewis, "Ferromagnetic Exchange-Spring Nanocomposites of A1 + L1<sub>0</sub> CoPt", *IEEE Transactions on Magnetics* **38** (5) 2799 –2801 (2002).
13. M. J. Kramer, N. Yang, L. H. Lewis, R. W. McCallum and K. W. Dennis, "In-situ determination of the crystallization pathway of Nd-Fe-B", *J. Appl. Phys.* **91** 8156 (2002).
14. J. van Lierop, L. H. Lewis, K. E. Williams and R. J. Gambino, "Magnetic exchange effects in a nanocomposite Ni/NiO film", *J. Appl. Phys.*, **91** 7233 (2002).
15. V. V. Volkov, D.C.Crew, Y. Zhu and L. H. Lewis, "Magnetic field calibration of a transmission electron microscope using a permanent magnet material"; *Review of Sci. Instrum.*, **73** (6) 2298 (2002).

16. M. J. Kramer, L. H. Lewis, L. M. Fabiette, Y. Tang, W. Miller, K. W. Dennis and R. W. McCallum, “Solidification, Microstructural Refinement and Magnetism in Nd<sub>2</sub>Fe<sub>14</sub>B” a topical review; *J. Magn. Magn. Mater.* **241** (2002) 144-155.
17. M. J. Kramer, L. H. Lewis, Y. Tang, K. W. Dennis and R. W. McCallum, “Microstructural refinement in melt-spun Nd<sub>2</sub>Fe<sub>14</sub>B”, invited paper, *Scripta Materialia* **47** (2002) 557-562.
18. D. C. Crew, J. Kim, L. H. Lewis and K. Barmak, “Interdiffusion in Bilayer CoPt/Co Films: Potential for Tailoring the Magnetic Exchange Spring”, *J. Magn. Magn. Mater.* **233** (2001) 257-273.
19. L. H. Lewis, S. C. Collins, M. J. Kramer and C.C.H. Lo Solidification, “Quenching Gas and Magnetic Properties in Melt-Spun Nd<sub>2</sub>Fe<sub>14</sub>B,” *IEEE Trans. Magn.* **37** (4) 2486 (2001).
20. M.J. Kramer, A. S. O'Connor, K. W. Dennis, R. W. McCallum, L. H. Lewis, L. D. Tung and N. P. Duong, “Origins of Coercivity in the Amorphous Alloy Nd<sub>60</sub>Fe<sub>30</sub>Al<sub>10</sub>”, *IEEE Trans. Magn.* **37** (4) 2497 (2001).
21. D. C. Crew and L. H. Lewis, “Effect of grain alignment on magnetic structure in nanoscale material”, *IEEE Trans. Magn.* **37** (4) 2512 (2001).
22. D. C. Crew, J. Kim, L. H. Lewis and K. Barmak, “Magnetic Signature of Compositional Gradient in Exchange-Spring Bilayer Films of CoPt/Co”, *J. Appl. Phys.* **89** 7528 (2001).
23. D. C. Crew, L. H. Lewis and V. Panchanathan, “The Effect of Evolving Grain Shape and Alignment on the Coercivity in Thermomechanically-deformed Nd<sub>13.9</sub>(Fe<sub>0.92</sub>Co<sub>0.08</sub>)<sub>80.3</sub>B<sub>5.3</sub>Ga<sub>0.5</sub> Permanent Magnets”, *J. Magn. Magn. Mater.* **223** Issue: 3 February, 2001, pp. 261-266.
24. D. C. Crew, L. H. Lewis and V. Panchanathan, “Multiscale magnetic domains observed in die-upset melt-spun magnets using magnetic force microscopy”, *J. Magn. Magn. Mater.* **231** Issue: 1 May 2, 2001, pp. 57-64.
25. L. H. Lewis, A. R. Moodenbaugh, D. O. Welch and V. Panchanathan, “Stress, Strain and Technical Magnetic Properties in “Exchange-Spring” Nd<sub>2</sub>Fe<sub>14</sub>B + α-Fe Nanocomposite Magnets”, *J. Phys. D: Appl. Phys.* **34** (2001) 744-751.
26. D. J. Branagan, M. J. Kramer, Yali Tang, R. W. McCallum, D. C. Crew and L. H. Lewis, “Engineering Magnetic Nanocomposite Microstructures”, *J. Materials Science*, 35(14): 3459-3466, July 2000.
27. L. H. Lewis, K. Gallagher, K. Wu, D. J. Branagan and C. H. Sellers, “Evidence for Elemental Partitioning in Gas-Atomized Nd<sub>2</sub>Fe<sub>14</sub>B Modified by Alloying Additions”, *Journal of Alloys and Compounds* **302** (1-2) April 28, 2000, pp. 239-247.
28. L. H. Lewis, M. J. Kramer, K. Dennis and R. W. McCallum, “Compositional Clustering in Nd<sub>2</sub>Fe<sub>14</sub>B Melt-Spun Ribbons” *J. Appl. Phys.* **87** (9) 4735 (2000).
29. J. Kim, K. Barmak, M. DeGraef, L. H. Lewis and D. C. Crew, “The Effect of Annealing on Magnetic Exchange-Coupling in CoPt/Co Bilayer Thin Films”, *J. Appl. Phys.* **87** (9) 6140 (2000).
30. D. C. Crew and L. H. Lewis, “The Effect of Pinning and Nucleation Field Distributions on Reversible Magnetization Behavior”, *J. Appl. Phys.* **87** (9) 4783 (2000).
31. D. C. Crew, L. H. Lewis, D. O. Welch and F. Pourarian, “The Effect of Temperature on the Magnetization Reversal Mechanism in Sintered PrFeB”, *J. Appl. Phys.* **87** (9) 4744 (2000).
32. D. C. Crew, L. H. Lewis, D. O. Welch and V. Panchanathan, “The Effect of Degree of Die Upset on Magnetic Behavior in Nd<sub>14</sub>(Fe<sub>92</sub>Co<sub>8</sub>)<sub>80</sub>B<sub>6</sub>Ga<sub>0.5</sub>” *J. Appl. Phys.* **87** (9) 6571 (2000).

33. R. C. Budhani, Chaitali Roy, Laura H. Lewis, Qiang Li and A. R. Moodenbauch, "Magnetic Ordering and Granularity Effects in  $\text{La}_{1-x}\text{Ba}_x\text{MnO}_3$ "; *J. Appl. Phys.* **87** (5) 2490-2496 (2000).
34. R. A. Ristau, K. Barmak, L. H. Lewis, K. R. Coffey and J. K. Howard, "On the relationship of ordering and coercivity in thin films of CoPt and FePt", *Journal of Applied Physics*. Volume 86, Number 8, 4527 (1999)
35. L. H. Lewis, K. Gallagher, and V. Panchanathan, "The effect of Nb additions on the thermal stability of melt-spun  $\text{Nd}_2\text{Fe}_{14}\text{B}$ "; *J. Appl. Phys.* **85** (8) 5926-28 (1999).
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37. L. H. Lewis and V. Panchanathan, "The effect of the boron-rare-earth ratio on metastable phase formation in  $\text{Nd}_2\text{Fe}_{14}\text{B}$ -based nanocomposites", *J. Appl. Phys.* **85** (8) 4883-85 (1999).
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39. R. Moodenbaugh, Lijun Wu, Yimei Zhu, L. H. Lewis, D. E. Cox, "High Resolution X-ray Diffraction Sudy of  $\text{La}_{1.88-y}\text{Sr}_{0.12}\text{Nd}_y\text{CuO}_4$ ", *Phys. Rev. B* **58** (14) 9549-55 (1998).
40. L. H. Lewis, K. Gallagher, B. Hoerman, and V. Panchanathan, "Crystallization Sequences and Magnetic Properties of Melt-Spun  $\text{Nd}_2\text{Fe}_{14}\text{B}$ -based Nanocomposites Containing Co and Cr", *J. Alloys and Compounds* **270** (1998) 265-274.
41. J.-Y. Wang, L. H. Lewis, D. O. Welch and Paul Canfield, "Magnetic Imaging of  $\text{Nd}_2\text{Fe}_{14}\text{B}$  Using Unmodified Scanning Electron Microscopy", *Materials Characterization*, **41** (5) 201 (1998).
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47. L. H. Lewis, D. O. Welch and V. Panchanathan, "Curie Temperature Enhancement of  $\text{Nd}_2\text{Fe}_{14}\text{B}$  in Nanocomposite Exchange-Spring Alloys", *J. Magn. Magn. Mater.* **175** (1997) 275-278.
48. L. H. Lewis, T. R. Thurston, V. Panchanathan, U. Wildgruber and D. O. Welch, "An Investigation of the Spatial Texture Distribution in Thermomechanically-Deformed 2-14-1-Based Magnets", *J. Appl. Phys.* **82** (7) 3430-3441 (1997).
49. J.-Y. Wang, L. H. Lewis, Y. Zhu, D. O. Welch, C. H. Sellers, D. J. Branagan, V. Panchanathan, "Transmission Electron Microscopy of Inert Gas-Atomized Particles Based on the  $\text{Nd}_2\text{Fe}_{14}\text{B}$  Composition: Effect of Alloying Additions", *J. Appl. Phys.* **81** (8) 5094 (1997)

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51. L. H. Lewis, D. O. Welch and V. Panchanathan, " 'Exchange-Spring' Nd-Fe-B Alloys: Investigations into Reversal Mechanisms and Their Temperature Dependence", *J. Appl. Phys.* **81** (8) 4422 (1997).
52. L. H. Lewis and Konrad M. Bussmann, "A Sample Holder Design and Calibration Technique for the Quantum Design MPMS SQUID Magnetometer", *Rev. Sci. Instrum.* **67** (10) 3537 - 3542 (1996)
53. D. J. Branagan, T. A. Hyde, C. H. Sellers and L. H. Lewis, "A new generation of gas atomized powder with improved levels of energy product and processability", *IEEE Trans. Magn.* **32** (5) 5097-5099 (1996)
54. H. Sellers, T. A. Hyde, D. Branagan, L. H. Lewis and V. Panchanathan, "Microstructure and magnetic properties of inert gas atomized rare earth permanent magnet materials", *J. Appl. Phys.*, **81** (3) 1 Feb. 1997 1351-1357.
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66. L. Henderson, R.C. O'Handley, B. L. Averbach: "Magnetic Properties and Morphology of Rapidly-Solidified Iron-Oxide with Silica" *J. Magn. Magn. Mater.* **89** 245 (1990)
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68. J.P. Woods, A. Ushioda, A. Fukuno, S.W. Sun, L. Henderson and R.C. O'Handley: "Surface Magnetism of Co<sub>70</sub>V<sub>10</sub>B<sub>20</sub> and Fe<sub>77</sub>Cr<sub>6</sub>B<sub>17</sub> Amorphous Alloys" *J. Appl. Phys.* **64** (10) 5446 (1988).

### Refereed Conference Proceedings

69. L. H. Lewis and C. L. Harland, "Anisotropy Determinations in Exchange-Spring Magnets", to be presented at the 17<sup>th</sup> International Workshop on Rare-earth magnets and their Applications, August 18-22, 2002, Newark, Delaware, USA; Proceedings of the 17<sup>th</sup> International Workshop on Rare-earth magnets and their Applications
70. L. H. Lewis and C. L. Harland, "Field Dependence of the Spin Reorientation Temperature in Micro- and Nanocrystalline Forms of Nd<sub>2</sub>Fe<sub>14</sub>B", to be presented at the 17<sup>th</sup> International Workshop on Rare-earth magnets and their Applications, August 18-22, 2002, Newark, Delaware, USA; Proceedings of the 17<sup>th</sup> International Workshop on Rare-earth magnets and their Applications
71. R. W. McCallum, M. J. Kramer, K. W. Dennis and L. H. Lewis, "Nd-Fe-Al, A Spin Glass Transition in a Collection of Superparamagnetic Clusters", to be presented at the 17<sup>th</sup> International Workshop on Rare-earth magnets and their Applications, August 18-22, 2002, Newark, Delaware, USA
72. Laura H. Lewis and David C. Crew, "The Coercivity – Remanence Tradeoff in Nanocrystalline Permanent Magnets", *invited talk*, MRS Spring 2001 Meeting, April 16-20, 2001, San Francisco, California.
73. N. H. Dan, V. H. Ky, N. X. Phuc, N. Chau, N. H. Luong, C. X. Huu, L. H. Lewis, R.W. McCallum, "Spatial Dependence of Amorphous Character in Cast NdFeAl Ferromagnetic Alloys", to be presented at MRS Spring 2001 Meeting, April 16-20, 2001, San Francisco, California
74. S. O'Connor, L. H. Lewis, R. W. McCallum, K. W. Dennis, M. J. Kramer, D. T. Kim Anh, N. H. Dan, N. H. Luong and N. X. Phuc, "Effect of Pre-Alloying Condition on the Bulk Amorphous Alloy Nd<sub>60</sub>Fe<sub>30</sub>Al<sub>10</sub>", Proceedings of the 16<sup>th</sup> International Workshop on Rare-Earth Magnets and Their Applications, Sendai, Japan (2000) H. Kaneko, M. Homma and M. Okada, eds., pgs. 475-482
75. C. Crew, L. H. Lewis, P. G. McCormick, R. Street and V. Panchanathan, "Magnetization Reversal in Melt-Quenched NdFeB", Advanced Hard and Soft Magnetic Materials, p. 321, Materials Research Society Symposium Proceedings Volume 577. Materials Research Society, Warrendale, PA (1999).
76. R. A. Ristau, K. Barmak, L. H. Lewis, K. R. Coffey and J. K. Howard, "A Study on High Coercivity and L<sub>1</sub><sub>0</sub> Ordered Phase in CoPt and FePt Thin Films", Advanced Hard and Soft Magnetic Materials, pg. 347, Materials Research Society Symposium Proceedings Volume 577. Materials Research Society, Warrendale, PA (1999).
77. J. Kim, K. Barmak, L. H. Lewis, D. C. Crew and D. O. Welch, "Magnetic Exchange-Coupling in CoPt/Co Bilayer Thin Films", Advanced Hard and Soft Magnetic Materials, pg. 353, Materials Research Society Symposium Proceedings Volume 577. Materials Research Society, Warrendale, PA (1999).
78. L. H. Lewis and V. Panchanathan, "Extrinsic Curie temperature and spin reorientation changes in Nd<sub>2</sub>Fe<sub>14</sub>B/ $\square$ -Fe nanocomposites," Proc. 15<sup>th</sup> International Workshop on Rare Earth Magnets and Their Applications, Dresden, Germany (1998) L. Schultz, K-H. Muller, eds., pp. 233-242.
79. H. Sellers, D. J. Branagan, T. A. Hyde, L. Henderson Lewis and V. Panchanathan, "Amorphous Rare Earth Powders", Proceedings of the 14<sup>th</sup> International Workshop on Rare-Earth Magnets and Their Applications, São Paulo, Brazil (1996) F. P. Missell, H. R. Rechenberg, V. Villas-Boas and F. J. G. Landgraf, eds., pgs. 28-37.
80. L. H. Lewis, D. O. Welch, T. Thurston and V. Panchanathan, "Texture Determinations in Rare-Earth-Based Permanent Magnets", Proceedings of the 9<sup>th</sup> International Symposium on Magnetic Anisotropy and Coercivity in Rare-Earth Transition Metal Alloys, São Paulo, Brazil (1996) F. P. Missell, H. R. Rechenberg, V. Villas-Boas and F. J. G. Landgraf, eds., pgs. 278-287.

### **Patents and Disclosures**

81. United States Patent # 5,030,332 (July, 1991) Henderson *et al.* "Method for Making Magnetic Oxide Precipitates"

#### Disclosures:

82. "The "Double" Magnetocaloric Effect" (BNL patent procedure under review: 2002);  
83. "Novel Hysteresis Mechanism in Hybrid Permanent Magnets" (BNL patent procedure under review: 2002),  
84. "Simple Magnetic Field Amplification for Functional Magnetic Materials" (decision to proceed with patent, 2002)

### **Other**

85. Laura Henderson Lewis, "The New Future of Magnetism", The World & I Magazine, a publication of the Washington Times, p. 146, Sept. 2001.
86. L. H. Lewis, M. J. Kramer, R. W. McCallum and D. J. Branagan, "Rapidly-Solidified Permanent Magnetic Materials: Factors Affecting Quenchability and Magnetic Properties in Nd<sub>2</sub>Fe<sub>14</sub>B"; Trends in Materials Science and Technology: Proceedings of the Third International Workshop on Materials Science, Nov. 2-4, 1999, Hanoi, Vietnam, pg. 110.
87. Michael Coey, Laura H. Lewis, Bao-Min Ma, Thomas Schrefl, Ludwig Schultz, Josef Fidler, Vincent G. Harris, Ryusuke Hasegawa, Akihisa Inoue and Michael McHenry, editors, Advanced Hard and Soft Magnetic Materials, Materials Research Society Symposium Proceedings Volume 577. Materials Research Society, Warrendale, PA (1999).
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89. C.H. Sellers, D.J. Branagan, T.A. Hyde, L.H. Lewis, and V. Panchanathan, "Permanent Magnet Powders Produced by Gas Atomization", Magnetic Hysteresis in Novel Magnetic Materials, Myknonos Greece, ed. by G.C. Hadjipanayis, NATO ASI Series, Kluwer Academic Publishers, 1997, p.651.
90. L. H. Lewis, C. H. Sellers and V. Panchanathan, "Factors Affecting Coercivity in Rare-Earth-Based Advanced Permanent Magnet Materials" in Rare Earths, Science Technology and Applications III, R. G. Bautista, C. O. Bounds, T. W. Ellis and T. Kilbourn, Eds., pp. 119-136, TMS, 1997.